

Title (en)  
SINGLE-PHASE BRUSHLESS MOTOR

Title (de)  
EINPHASIGER BÜRSTENLOSER MOTOR

Title (fr)  
MOTEUR SANS BALAIS MONOPHASÉ

Publication  
**EP 3062426 A1 20160831 (EN)**

Application  
**EP 16156849 A 20160223**

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Abstract (en)  
The present invention provides a single-phase motor, comprising a stator and a rotor. The stator comprises a stator magnetic core (3) and a winding (5) wound on the stator magnetic core (3), the stator magnetic core (3) comprises an annular yoke (31) and a plurality of teeth (32) extending inwards from the yoke (31), crowns (321) extending circumferentially are formed at the tail ends of the teeth (32) that are far away from the yoke (31), the crowns (321) of the adjacent teeth (32) are interconnected to form an annular portion (33), the winding (5) is wound on the corresponding teeth (32), the rotor is accommodated in the annular portion (33) of the stator magnetic core (3), the rotor comprises a rotor magnetic core (6) and permanent-magnet poles (71), the rotor magnetic core (6) is provided with a plurality of grooves (61), each permanent-magnet pole (71) is disposed within the corresponding groove (61), and slots (62) are formed in positions on the peripheral surface of the rotor magnetic core (6) that correspond to the grooves (61).

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